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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/575,431	04/10/2006	Jiro Kiyama	65325 (70904)	2093
21874	7590	04/27/2010	EXAMINER	
EDWARDS ANGELI, PALMER & DODGE LLP			HARVEY, DAVID E	
P.O. BOX 55874			ART UNIT	PAPER NUMBER
BOSTON, MA 02205			2621	
MAIL DATE		DELIVERY MODE		
04/27/2010		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/575,431	Applicant(s) KIYAMA ET AL.
	Examiner DAVID E. HARVEY	Art Unit 2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 15 January 2010.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-23 and 34-57 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) _____ is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) 1-23 and 34-57 are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/GS-68)
 Paper No(s)/Mail Date _____
- 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date _____
- 5) Notice of Informal Patent Application
 6) Other: _____

DETAILED ACTION

1. **Preface:**

Claims 48-57 are clearly written in dependent form. As such, for the purpose of this Office action, it has been assumed that these dependent claims incorporate the limitations of the claim(s) from which they depend. However, for the record, the examiner maintains that the "are able" recitations of these claims (e.g., note line 5 of claim 48) render the claims indefinite because such recitations suggest that the recitations of the claims(s) from which they depend may not necessarily be incorporated therein.

Election/Restrictions

2. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

A. Group I, claim(s) 1-23, 34-38, and 42-57 drawn to various embodiments/species of reproducing apparatus:

- 1) The embodiment/species shown in Figures 1-11 [as described in paragraphs 78-150 of corresponding US PG publication document #2007/0053659];
- 2) The embodiment/species shown in Figures 12-17 [as described in paragraphs 151-195 of corresponding US PG publication document #2007/0053659];
- 3) The embodiment/species shown in Figure 18 [as described in paragraphs 196-213 of corresponding US PG publication document #2007/0053659];

4) The embodiment/species shown in Figures 19-27 [as described in paragraphs 214-296 of corresponding US PG publication document #2007/0053659];

5) The embodiment/species shown in Figures 28-33 [as described in paragraphs 312-384 of corresponding US PG publication document #2007/0053659]; and

6) The embodiment/species shown in Figure 34 [as described in paragraphs 408-409 of corresponding US PG publication document #2007/0053659];

B. Group II, claim(s) 39-41, drawn to two embodiments/species of data structure:

1) The embodiment/species recited in claim 39;

2) The embodiment/species recited in claims 40-41.

3. The groups of inventions listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Each of the two species of data structure do not require the specific (or any) apparatus/method/program of reproducing of the other groups.

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4. **If applicant elects Group I above**, then applicant needs to elect one of the species therein. As noted above, this application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

- 1) The embodiment/species shown in Figures 1-11 [as described in paragraphs 78-150 of corresponding US PG publication document #2007/0053659];
- 2) The embodiment/species shown in Figures 12-17 [as described in paragraphs 151-195 of corresponding US PG publication document #2007/0053659];
- 3) The embodiment/species shown in Figure 18 [as described in paragraphs 196-213 of corresponding US PG publication document #2007/0053659];
- 4) The embodiment/species shown in Figures 19-27 [as described in paragraphs 214-296 of corresponding US PG publication document #2007/0053659];
- 5) The embodiment/species shown in Figures 28-33 [as described in paragraphs 312-384 of corresponding US PG publication document #2007/0053659]; and
- 6) The embodiment/species shown in Figure 34 [as described in paragraphs 408-409 of corresponding US PG publication document #2007/0053659];

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise require all the limitations of an allowed generic claim. Currently, the following claim(s) are generic: none

As currently understood by the examiner, the claims are deemed to correspond to the species listed above in the following manner:

- 1) Claims 1-14, 34, 46/(1-13,14,42,43), 47/46/(1-13,14,42), 48/(1-14, 42, 43), 49/(1-14, 42, 43), 50/(1-14, 42, 43) , and 51/(1-14, 42, 43) appear to read on species "1";
- 2) Claims 15-19, 35, 36, and 52/(15-19) appear to read on species "4";
- 3) Claims 20-23, 44, 45, 46/(44, 45), 47/46/(44, 45), 52/(20-23, 44, 45), 53/(20-23, 44, 45), 54/53/(21-23, 44, 45), 55/53/(21-23, 44, 45), 56/(21-23, 44, 45), and 57/56/(21-23, 44, 45) appear to read on species "5";

The following claim(s) are generic: none.

5. **If applicant elects Group II above,** then applicant needs to elect one of the species therein. As noted above, this application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

- 1) The embodiment/species of data structure that is set forth in claim 39;
- 2) The embodiment/species of data structure that is set forth in claims 40-41

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise require all the limitations of an allowed generic claim. Currently, the following claim(s) are generic: none

6. REQUIREMENT FOR UNITY OF INVENTION

As provided in 37 CFR 1.475(a), a national stage application shall relate to one invention only or to a group of inventions so linked as to form a single general inventive concept ("requirement of unity of invention"). Where a group of inventions is claimed in a national stage application, the requirement of unity of invention shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features. The expression "special technical features" shall mean those technical features that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art.

The determination whether a group of inventions is so linked as to form a single general inventive concept shall be made without regard to whether the inventions are claimed in separate claims or as alternatives within a single claim. See 37 CFR 1.475(e).

WHEN CLAIMS ARE DIRECTED TO MULTIPLE CATEGORIES OF INVENTIONS

As provided in 37 CFR 1.475(b), a national stage application containing claims to different categories of invention will be considered to have unity of invention if the claims are drawn only to one of the following combinations of categories:

- (1) A product and a process specially adapted for the manufacture of said product; or

- (2) A product and process of use of said product; or
- (3) A product, a process specially adapted for the manufacture of the said product, and a use of the said product; or
- (4) A process and an apparatus or means specifically designed for carrying out the said process; or
- (5) A product, a process specially adapted for the manufacture of the said product, and an apparatus or means specifically designed for carrying out the said process.

Otherwise, unity of invention might not be present. See 37 CFR 1.475(c).

7. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention or species.

Should applicant traverse on the ground that the inventions have unity of invention (37 CFR 1.475(a)), applicant must provide reasons in support thereof. Applicant may submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. Where such evidence or admission is provided by applicant, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

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8. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DAVID E. HARVEY whose telephone number is (571) 272-7345. The examiner can normally be reached on M-F from 6:00AM to 3PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ms. Marsh D. Banks-Harold, can be reached on (571) 272-7905. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/DAVID E HARVEY/

Primary Examiner, Art Unit 2621

DAVID E HARVEY
Primary Examiner
Art Unit 2621